

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 4841 - L2 Version 001  
Chandra X-Ray Center

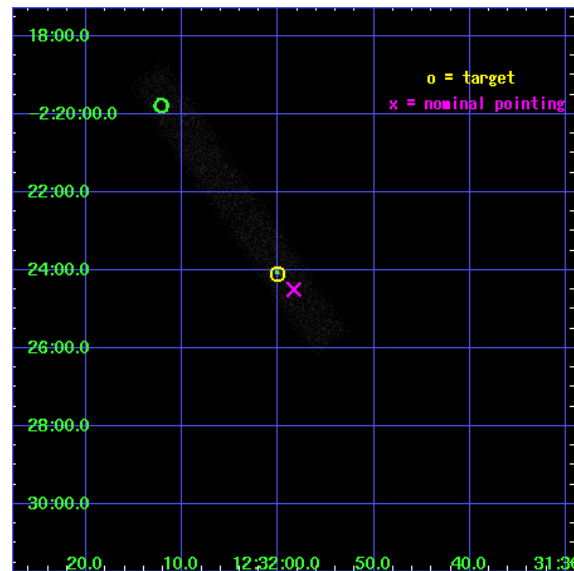
L2 Processing Date : May 25 2006

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# 1 Front

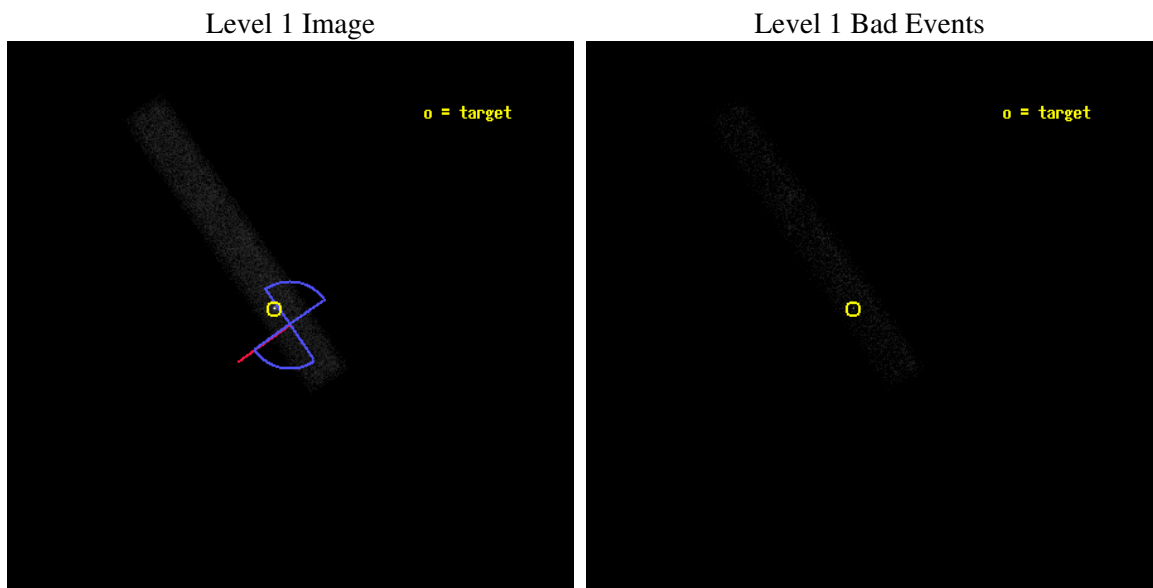
seq_num	700923
obs_id	4841
title	The Physics of Relativistic Jets: Chandra Imaging of Extended Jets in Gamma-loud Blazars
observer	Dr. FABRIZIO TAVECCHIO
object	1229-021
dtcycle	0
cycle	P
ra_targ	188.0
dec_targ	-2.401472
ra_nom	187.99320091177
dec_nom	-2.408325774399
roll_nom	235.15634400889
revision	3
ontime	20189.600300848
livetime	18310.901778386
ontime7	20189.600300848
l2events	14886



## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias

Chip 7



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldbver	3.2.2
date	2006-05-25T14:10:07
revision	3

sched_exp_time	20000.000000
ontime	21399.472482741
ontime7	21399.472482741
l1events	31896

### 2.1.4 Events

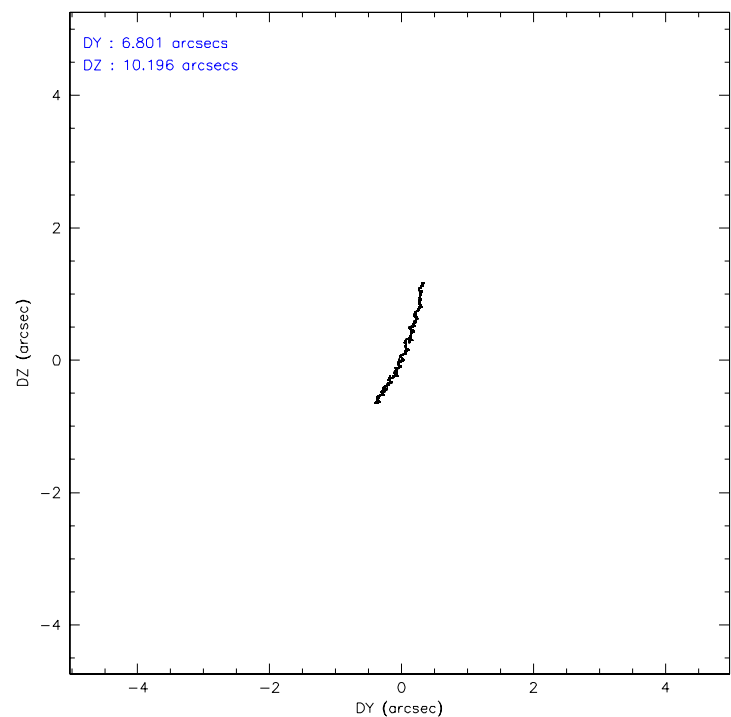
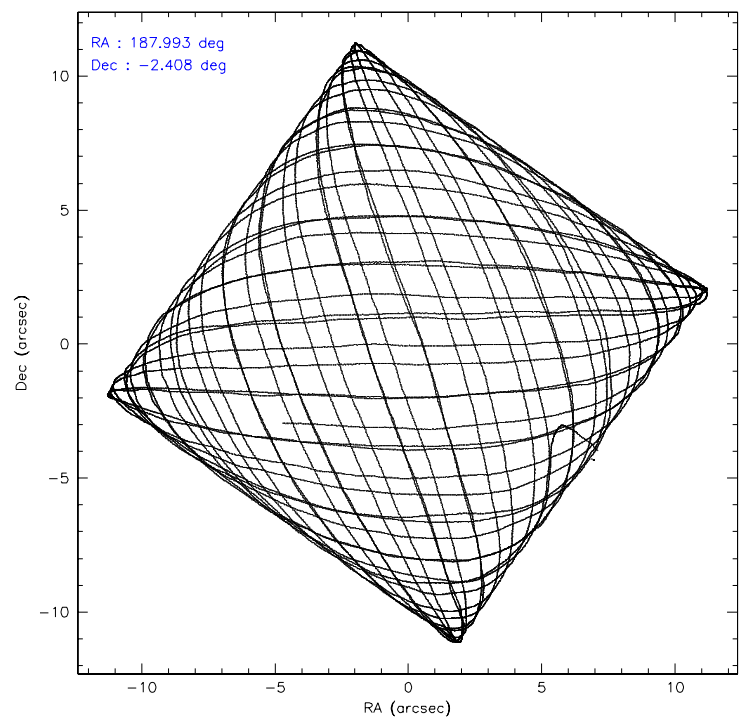
	<b>ccd 7</b>
level 1 events	31896
rejected events	16495
rejected %	51%

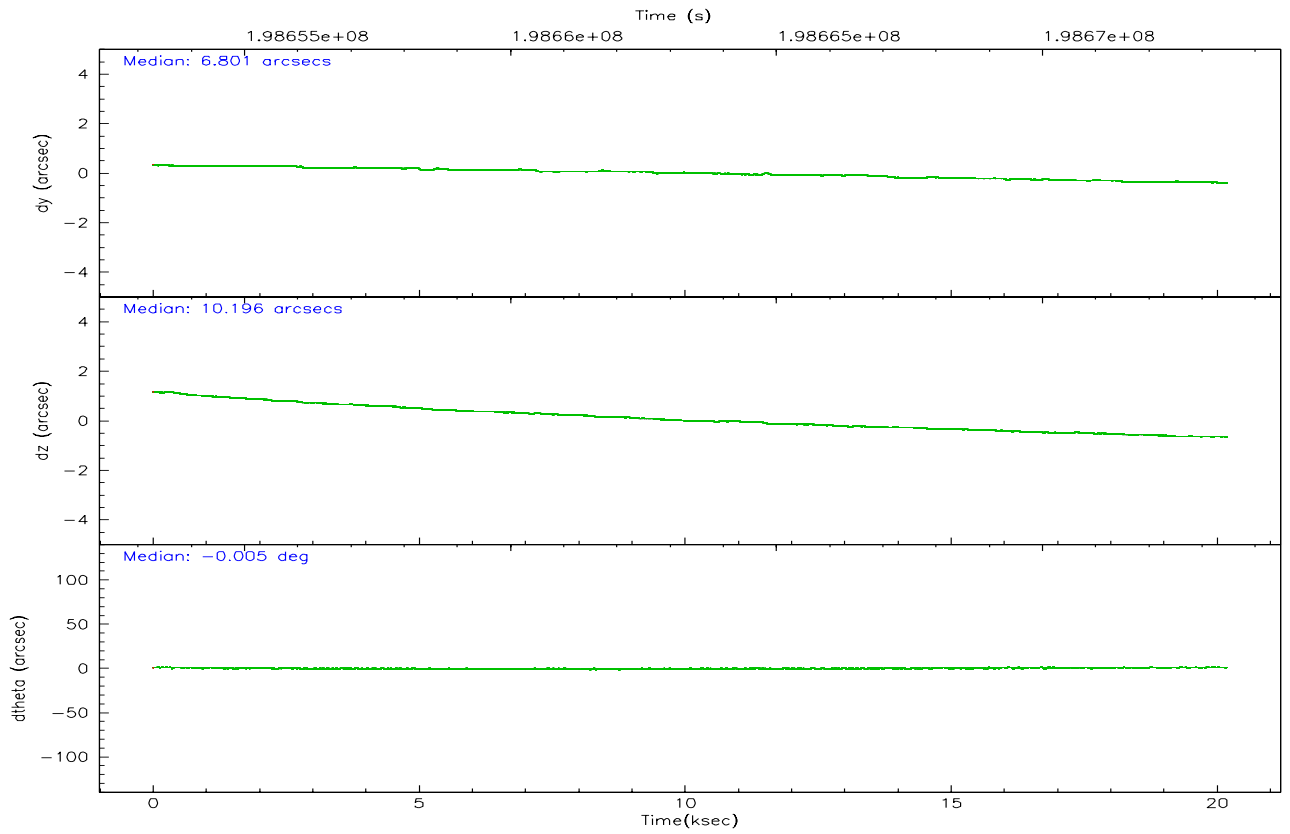
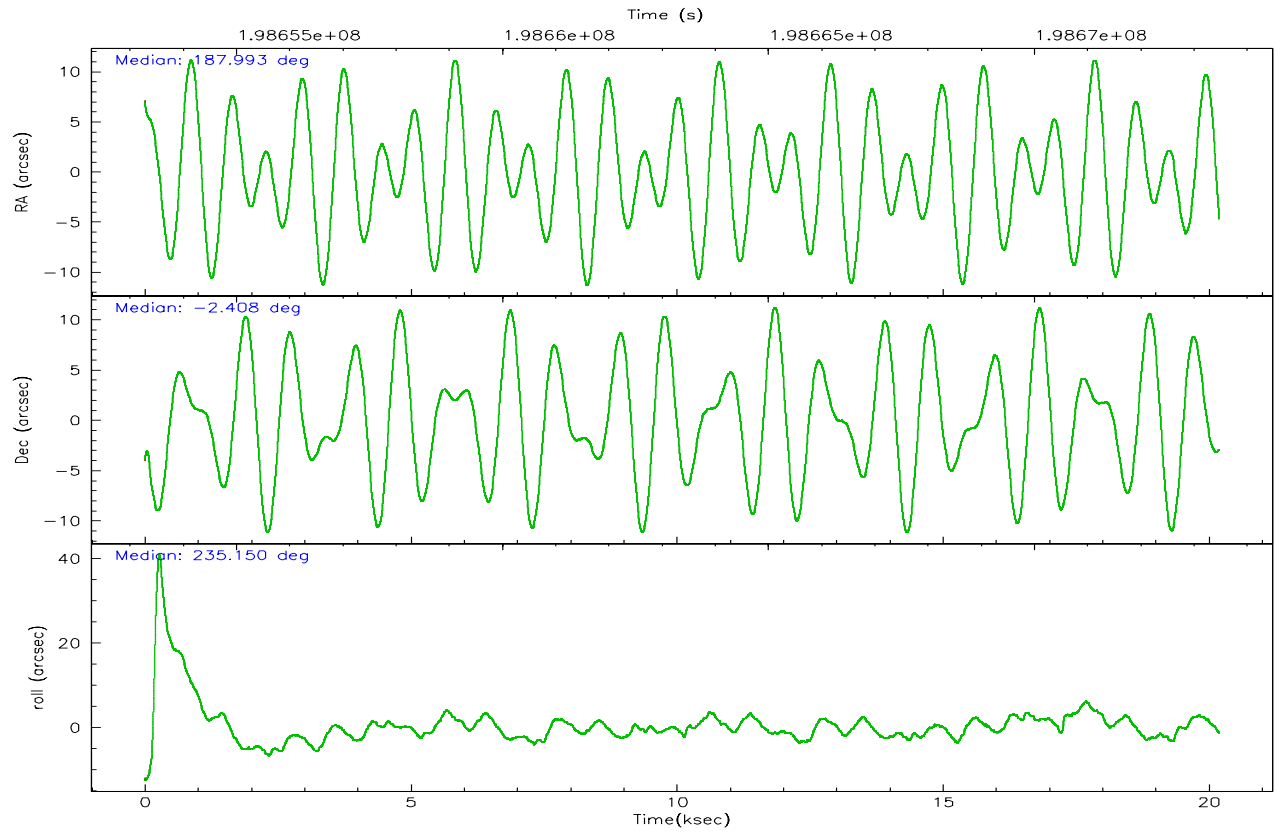
	<b>ccd 7</b>
grade 0 events	2212
	6%
grade 1 events	32
	0%
grade 2 events	3701
	11%
grade 3 events	1688
	5%
grade 4 events	1718
	5%
grade 5 events	2007
	6%
grade 6 events	6788
	21%
grade 7 events	13750
	43%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-7	ACIS-7	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	1/8	1/8
Pointing RA	187.995103	187.9932009117749	Subarray start row	0	449
Pointing Dec	-2.381155	-2.408325774399033	Subarray row count	1024	128
Pointing Roll	234.999793	235.1563440088873	Alternating exposures requested	N	N
Roll angle	190.000000	190.000000	Primary exposure time	0.000000	0.4
Roll tolerance	45.000000	45.000000			
Roll constraint allows 180D rotation	Y	Y			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1400660498719			
SIM translation stage offset (mm)	0	0.00754346686406393			
Observation start time	198653470.184000	198652071.34481			
Observation start date	2004-04-18T05:30:06	2004-04-18T05:07:51			
Observation end time	198673470.184000	198675041.08332			
Observation end date	2004-04-18T11:03:26	2004-04-18T11:30:41			
Read mode	TIMED	TIMED			

2.3 Aspect





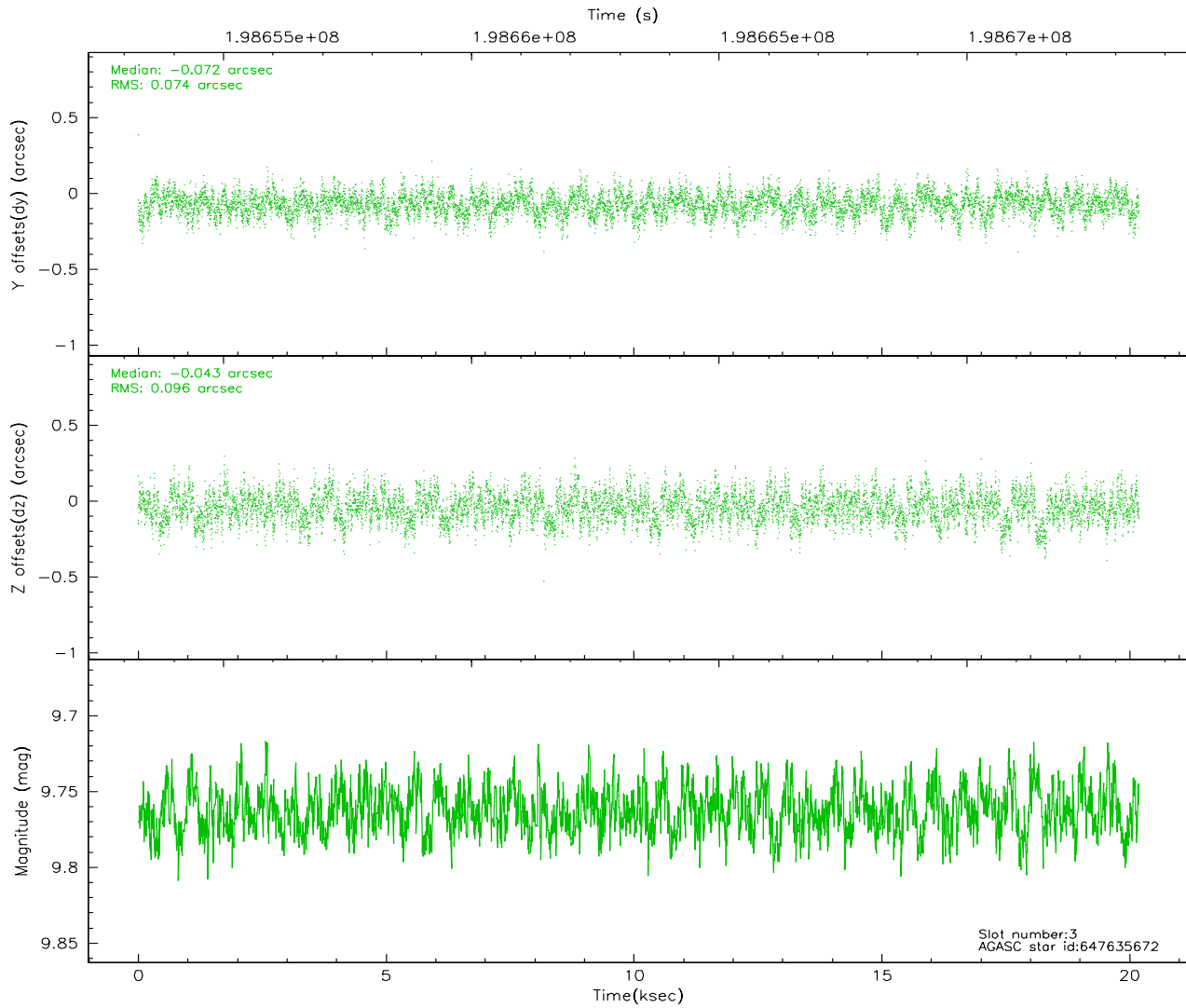
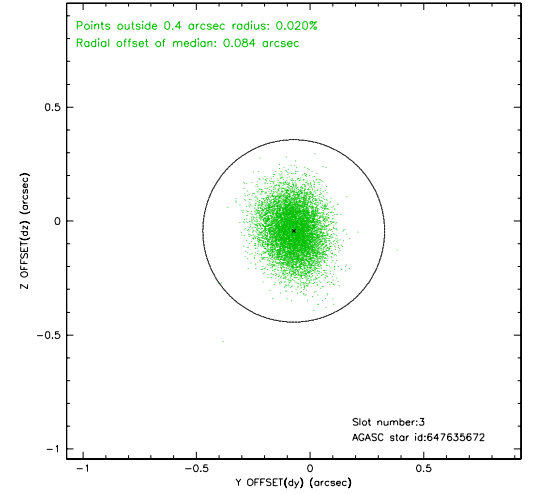
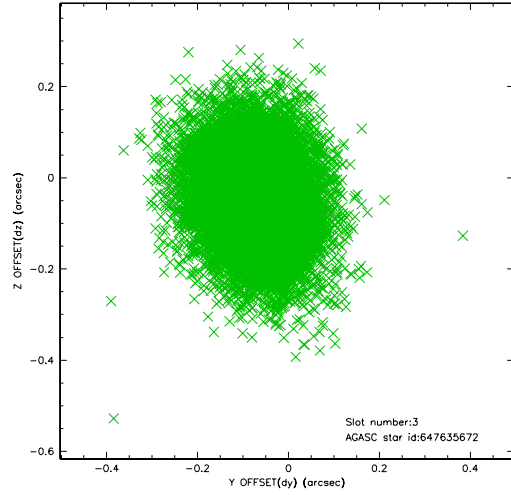
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	4925	-0.039	0.014	0.017	0.034	0.000000	0.000000	-759.55	-1731.54
1	FID	ACIS-S-4	7.21	4925	0.022	0.015	0.014	0.038	0.000000	0.000000	2153.68	176.79
2	FID	ACIS-S-5	7.23	4925	-0.016	-0.019	0.008	0.027	0.000000	0.000000	-1812.16	170.59
3	GUIDE	647635672	9.76	9840	-0.072	-0.043	0.130	0.210	187.306192	-2.209896	917.51	-2383.07
4	GUIDE	648550752	9.22	9845	-0.020	-0.101	0.160	0.249	187.581348	-1.942523	-438.75	-2125.12
5	GUIDE	648552520	10.03	9832	0.113	-0.017	0.266	0.376	187.797603	-2.144003	-291.12	-1071.82
6	GUIDE	648939216	10.11	9840	0.056	0.110	0.149	0.235	188.170028	-3.143856	1888.94	2090.37
7	GUIDE	648547192	10.53	9573	-0.057	0.056	0.222	0.382	188.710565	-2.078795	-2366.83	1485.16

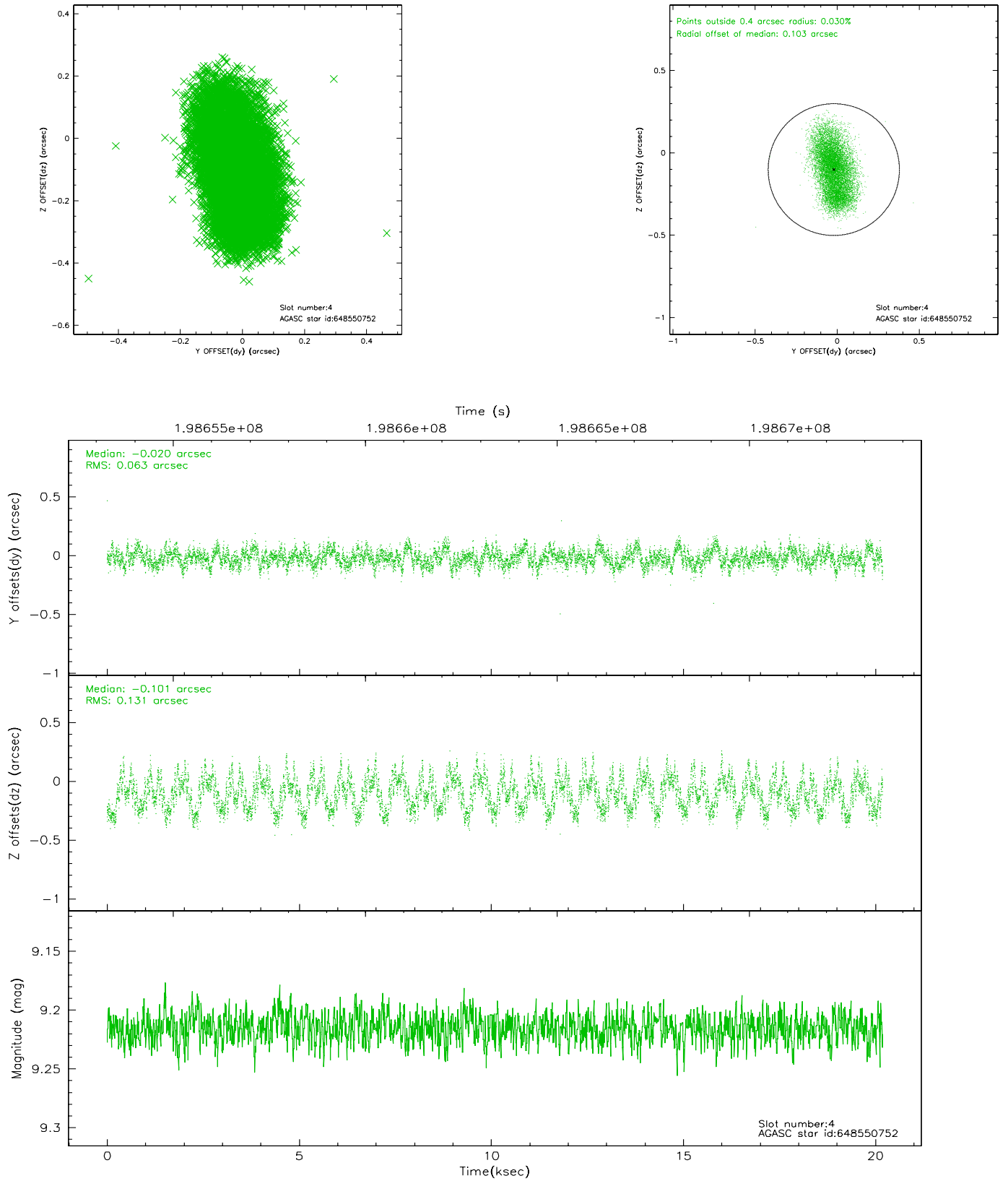


## 2.4 Star Slots

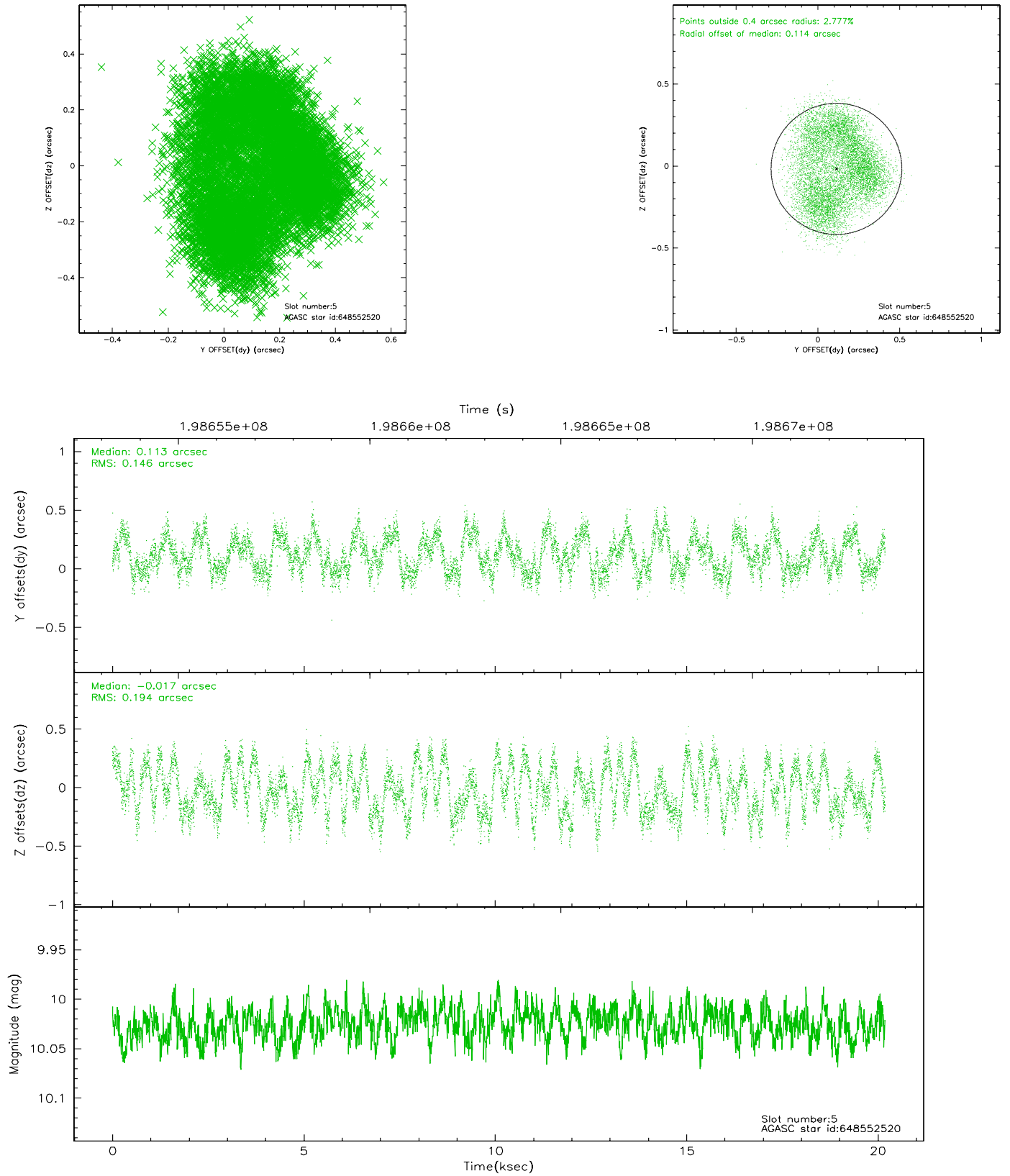
### 2.4.1 Slot 3



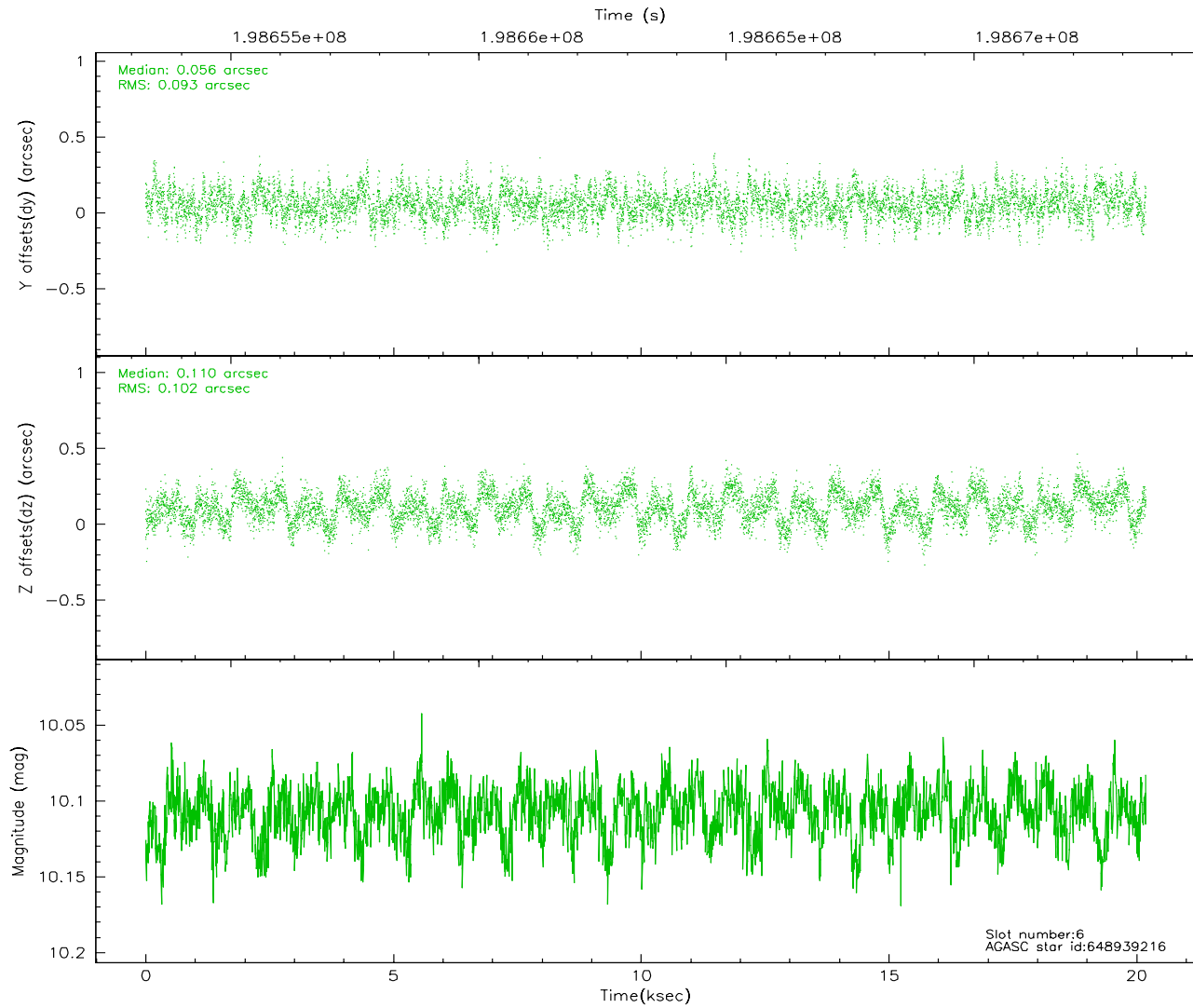
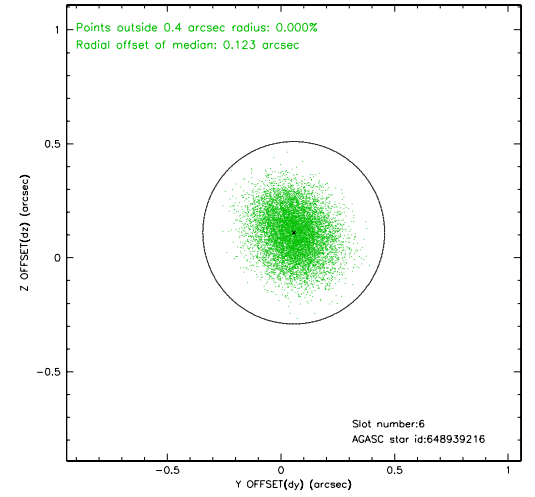
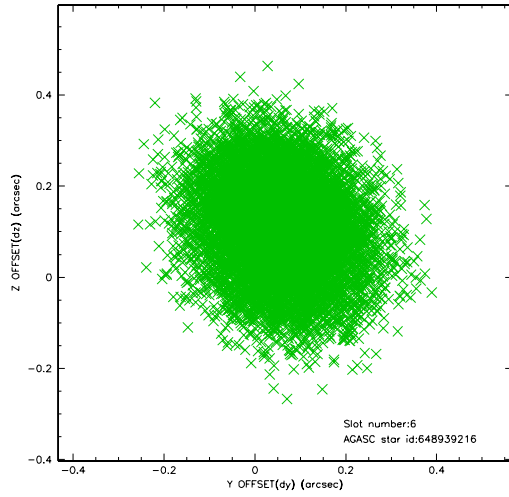
## 2.4.2 Slot 4



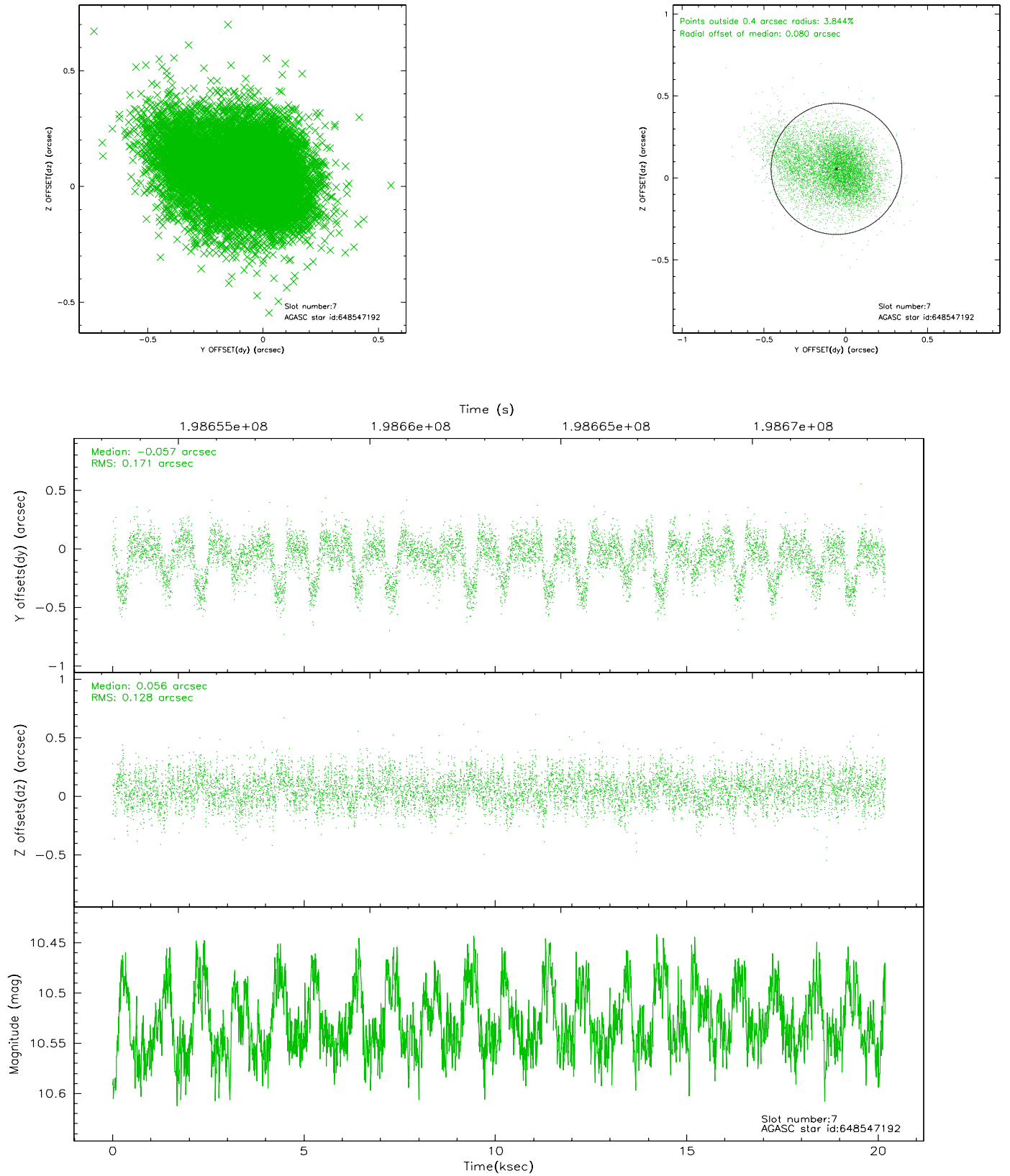
### 2.4.3 Slot 5



## 2.4.4 Slot 6

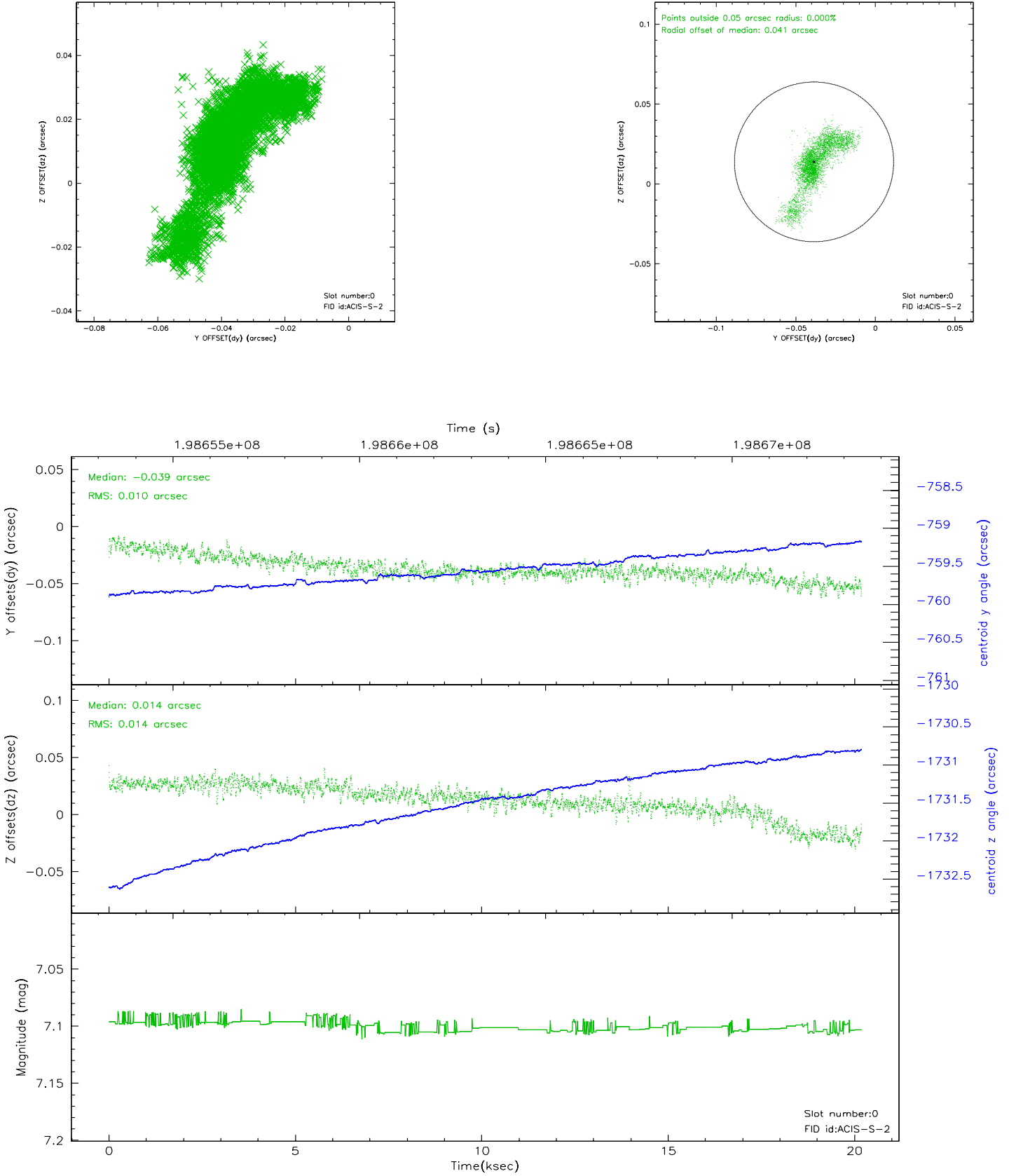


## 2.4.5 Slot 7

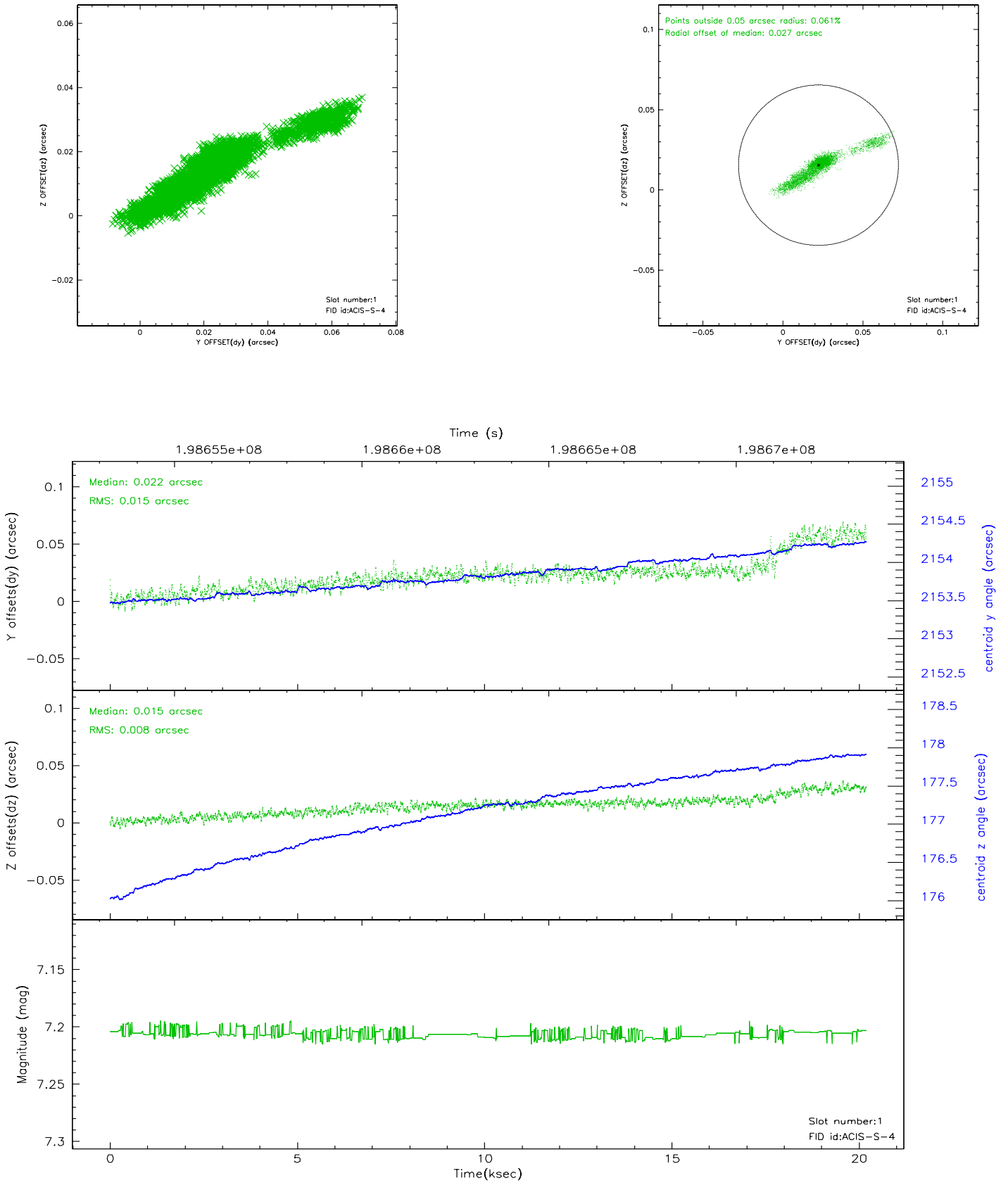


## 2.5 FID Slots

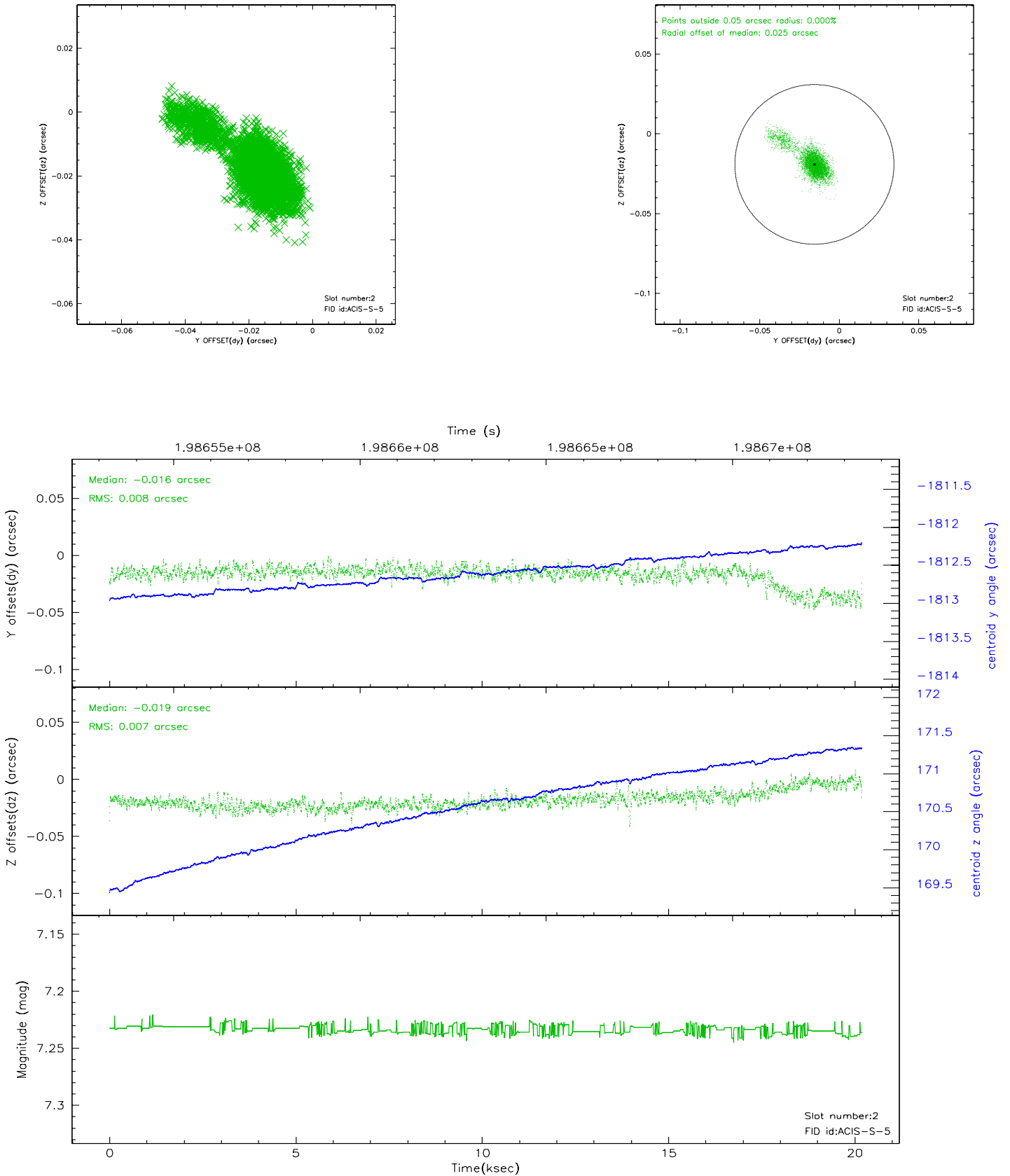
### 2.5.1 Slot 0



## 2.5.2 Slot 1



### 2.5.3 Slot 2





### 3 Point Sources

## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.05.25
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	20.189

### A.2 Comments

Roll constraint not met, the roll angle exceeded constraint limits by less than a degree.